



INVESTIGATOR'S ANNUAL REPORT

United States Department of the Interior

National Park Service

All or some of the information you provide may become available to the public.

OMB # (1024-0236)
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Form No. (10-226)

Reporting Year: 2012	Park: Klondike Gold Rush NHP	Select the type of permit this report addresses: Scientific Study
Principal Investigator: Michael G. Loso		Office Phone: 907 564-8263
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Additional investigator or key field assistants(first name, last name, office phone, office email)		

Study Title (maximum 300 characters): A field assessment of Focus Glaciers for the "Alaska NPS Glacier Inventory and Change Assessment" project			
Park-assigned Study or Activity #: KLGO-00019	Park-assigned Permit #: KLGO-2011-SCI-0003	Permit Start Date: Apr 29, 2011	Permit Expiration Date: Dec 31, 2012
Scientific Study Starting Date: Apr 29, 2011		Estimated Scientific Study Ending Date: Dec 31, 2012	
For either a Scientific Study or a Science Education Activity, the status is: Continuing		For a Scientific Study that is completed, please check each of the following that applies: <input type="checkbox"/> A final report has been provided to the park or will be provided to the park within the next two years <input type="checkbox"/> Copies of field notes, data files, photos, or other study records, as agreed, have been provided to the park <input type="checkbox"/> All collected and retained specimens have been cataloged into the NPS catalog system and NPS has processed loan agreements as needed	
Activity Type: Inventory			
Subject/Discipline: Glaciers			

Purpose of Scientific Study or Science Education Activity during the reporting year (maximum 4000 characters): NPS recently funded a collaborative project to assess the status and trends of Alaska NPS glaciers (NPS 2010). One portion of this multi-investigator project requires a narrative and data-rich summary of the history and current status of a small number (1-3 per glaciated Alaskan National Park unit) of "focus glaciers." The PI of this permit request, Dr. Loso, is responsible for the writing of these summaries and all research to support that task. Most research will be of a data gathering nature (old reports, photos, etc) and requires no fieldwork, for some subset of the focus glaciers he proposes field visits, during the summer of 2011, to enrich the narrative summaries with first hand experience. These field visits will be journalistic in nature, with an emphasis on photography, interviews of other researchers and park personnel, and collection of personal anecdotes. No samples or data will be collected, but because these visits will occur in the context of the larger research project it was decided that they should be documented by the research permitting process. Within the broader scope of the project, described above, the specific objective of this summer's fieldwork is to enrich the PI's
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interdisciplinary understanding of the focus glaciers. The decision to include these focus glacier narratives in the project was made specifically to document the broader consequences of glacier change including:

- 1.the sheer variety of kinds and sizes of glaciers in Alaskan parks
- 2.the diverse ways that glaciers have responded to climatic change
- 3.cases where nonclimatic forcings strongly influence glacier change
- 4.short and long-term ecological consequences of glacier change in the landscape
- 5.hydrologic and geologic consequences of glacier change in the landscape
- 6.cultural responses to glaciers and glacier change over time.

The focus glaciers offer an opportunity to document and demonstrate these consequences, but the success of that effort depends upon the breadth of the author's knowledge. The PI has an interdisciplinary academic background and first-hand familiarity with some of the focus glaciers on the list, but his knowledge of others is limited. His overall objective this summer is therefore to supplement his own knowledge and that available through existing materials by visiting a subset of the focus glaciers.

While the overall project is clearly data driven, the site visits proposed here are not. In this sense, the PI will act this summer more in the role of a science journalist than a scientist. His objectives will be to develop a first-hand familiarity with the field site, collect photographs (including, in some cases, repeat photographs of historic imagery), interview when possible researchers and NPS staff working on or near the site, and qualitatively document the diverse evidence of landscape change evident at the site.

Findings and status of Scientific Study (including collections made and catalog status of retained specimens and retained material originating from such specimens) or accomplishments of Science Education Activity during the reporting year (maximum 4000 characters):

Analysis continues for this project, but no fieldwork in the park occurred in the past year. None was scheduled.

For Scientific Studies (not Science Education Activities), were any specimens collected and removed from the park but not destroyed during analysis?

No

Funding specifically used in this park this reporting year that was provided by NPS (enter dollar amount):

\$0.00

Funding specifically used in this park this reporting year that was provided by all other sources (enter dollar amount):

\$0.00

List any other U.S. Government Agencies supporting this study or activity and the funding each provided this reporting year:

For Scientific Studies (not Science Education Activities), were any specimens collected and removed from the park but not destroyed during analysis?

No

Paperwork Reduction Act Statement: A federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Public reporting for this collection of information form is estimated to average 1.38 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms. Direct comments regarding this burden estimate or any aspect of this form to Dr. John G. Dennis, Natural Resources (3130 MIB), National Park Service, 1849 C Street, N.W., Washington, DC 20240.

Privacy Act Notice: Scientific research, education and collecting activities within units of the National Park System that may impact parks invoke a permitting and reporting requirement per regulations at 36 CFR 1.6 (Permits), 36 CFR 2.1 (Preservation of Natural, Cultural and Archeological Resources), and 36 CFR 2.5 (Research Specimens). The National Park Service collects information about permit applicants and permittees to administer and document research, collecting, and reporting activities within parks. The information disclosed on this form is required and may result in denial of permit applications if not provided.